

Title (en)

METHOD AND SYSTEM FOR TRACKING EYE MOVEMENT IN CONJUNCTION WITH A LIGHT SCANNING PROJECTOR

Title (de)

VERFAHREN UND SYSTEM ZUR VERFOLGUNG DER AUGENBEWEGUNG IN VERBINDUNG MIT EINEM LICHTABTASTPROJEKTOR

Title (fr)

PROCÉDÉ ET SYSTÈME DE SUIVI DU MOUVEMENT DES YEUX AU MOYEN D'UN PROJECTEUR À BALAYAGE DE LUMIÈRE

Publication

EP 3602178 A4 20200408 (EN)

Application

EP 18772388 A 20180321

Priority

- US 201762474497 P 20170321
- US 2018023512 W 20180321

Abstract (en)

[origin: US2018278924A1] An eye tracking system includes a pair of glasses including two frames and a light scanning projector coupled to the pair of glasses and operable to scan a beam of light. The eye tracking system also includes an eyepiece mounted in one of the two frames and optically coupled to the light scanning projector. The eyepiece includes an exit pupil expander operable to direct at least a portion of the beam of light towards an eye of a user. The eye tracking system further includes one or more photodetectors coupled to the pair of glasses and a processor coupled to the light scanning projector and the one or more photodetectors.

IPC 8 full level

G02B 27/01 (2006.01); **A61B 3/113** (2006.01); **G02B 6/10** (2006.01); **G02B 6/26** (2006.01); **G02B 27/00** (2006.01); **G02B 27/28** (2006.01)

CPC (source: CN EP IL KR US)

G02B 6/26 (2013.01 - CN); **G02B 26/10** (2013.01 - CN); **G02B 27/0081** (2013.01 - EP IL KR US); **G02B 27/0093** (2013.01 - CN EP IL KR US); **G02B 27/0172** (2013.01 - CN EP IL KR US); **G02B 27/0179** (2013.01 - IL KR US); **G02B 27/02** (2013.01 - CN); **G02B 27/28** (2013.01 - CN); **G02C 11/00** (2013.01 - CN); **G02C 11/10** (2013.01 - IL KR); **G09G 3/02** (2013.01 - CN); **G09G 3/20** (2013.01 - CN); **H04N 5/64** (2013.01 - CN); **H04N 9/31** (2013.01 - CN); **H04N 9/3129** (2013.01 - IL KR US); **H04N 13/334** (2018.05 - KR); **H04N 13/344** (2018.05 - CN IL US); **H04N 13/383** (2018.05 - CN IL KR US); **G02B 2027/0123** (2013.01 - IL KR US); **G02B 2027/0178** (2013.01 - IL KR US); **G02B 2027/0187** (2013.01 - EP IL KR US); **G02C 11/10** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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US 10715794 B2 20200714; **US 2018278924 A1 20180927**; AU 2018239359 A1 20191003; CA 3056657 A1 20180927; CN 110446965 A 20191112; CN 110446965 B 20220503; CN 114755824 A 20220715; EP 3602178 A1 20200205; EP 3602178 A4 20200408; EP 3602178 B1 20230510; EP 4235258 A2 20230830; EP 4235258 A3 20230927; IL 269101 A 20191128; IL 269101 B1 20230501; IL 269101 B2 20230901; IL 301719 A 20230501; JP 2020514831 A 20200521; JP 2023101505 A 20230721; JP 7273720 B2 20230515; KR 102594058 B1 20231024; KR 20190126880 A 20191112; KR 20230151053 A 20231031; US 11025897 B2 20210601; US 11838496 B2 20231205; US 2020366887 A1 20201119; US 2021344897 A1 20211104; US 2024146897 A1 20240502; WO 2018175548 A1 20180927

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US 201815927855 A 20180321; AU 2018239359 A 20180321; CA 3056657 A 20180321; CN 201880019662 A 20180321; CN 202210423224 A 20180321; EP 18772388 A 20180321; EP 23171485 A 20180321; IL 26910119 A 20190903; IL 30171923 A 20230327; JP 2019551616 A 20180321; JP 2023074415 A 20230428; KR 20197030310 A 20180321; KR 20237035884 A 20180321; US 2018023512 W 20180321; US 202016892184 A 20200603; US 202117306732 A 20210503; US 202318383417 A 20231024